



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 25, 2000

CERTIFIED RETURN RECEIPT
Z 230 748 238

Lon Thomas
Star Stone Quarries, Inc
4040 South 300 West
Salt Lake City, Utah 84107

Re: Notice of Tentative Approval to Commence Large Mining Operations, Star Stone Quarries, Inc.,
Heber Quarry, M/051/001, Wasatch County, Utah

Dear Mr. Thomas:

The Division has completed a review of your latest response, received July 13, 2000, to our June 1, 2000 deficiency review letter. After reviewing this latest information, the Division hereby grants tentative approval of the Heber Quarry large mining permit application. We will now proceed to publish a formal notice of tentative approval in the appropriate Salt Lake City and Wasatch County newspapers. This will begin the required 30-day public comment period. If no substantive comments are received during the public comment period, the Division will then be prepared to issue its final approval for this project.

Prior to issuing final approval, a Reclamation Contract (Form MR-RC) must be completed and filed with this office. It must be attached to the reclamation surety for this project. The new reclamation surety amount is \$60,800. Please let us know which type of surety you propose to post so we can provide you with the appropriate form. Please provide us with a "draft" copy of the completed reclamation contract and surety form before they are finalized so we can review them for completeness and accuracy.

Four variances were again requested in the revised Notice of Intention (NOI). With exception to the variance to Rule R647-4-107.5 - Soils, no new substantive information was provided that would justify granting the requested variances. Each variance is discussed below:

R647-4-112 - Variance

1. A variance to **Rule R647-4-107.5 - Soils** was requested to not salvage soils from areas deemed too thin or rocky by the operator (these areas are identified on Map #8). These areas were inspected by the Division on August 24, 2000. The area was found to have massive rock outcrop with little or no topsoil between rock outcrops. It was determined that in most of the area, soil salvage operations would be impossible with conventional equipment. There were a

couple of small areas where some soil could be salvaged (less than 1000 sq. feet) and the operator was encouraged to make every attempt to salvage soil from these areas. Based on the Soils data in the NOI and the findings of the August 24, 2000 inspection, the requested variance to not salvage soil within the area identified on Map #8 is hereby *approved*. (LK)

2. A variance to *Rule R647-4-111.8 - Roads* was requested to leave the main road to the upper quarry area for possible future enjoyment of the property. It is probable that the pre-existing roads to the east and west of the quarry will provide adequate access to the property. Therefore, adequate justification to leave the main access road for the post-mining land use has not been provided. This requested variance *is denied*. (LK)
3. A variance to *Rule R647-4-111.7 - Highwalls* was requested to leave approximately 375 linear feet of highwall (as shown on Map #7) at a slope steeper than 45 degrees. This highwall is at a current angle of 60 degrees (assumed). The slope above the highwall is at 38 degrees. Before the Division can grant this variance, the operator will need to demonstrate that the highwall will remain stable at an angle steeper than 45 degrees. A slope stability analysis may justify this variance request. To reduce the highwall to a 45 degree or flatter slope by regrading the crest will create less than one acre of additional disturbance. This does not take into consideration any backfilling that could be done at the base of this highwall. The operator states in the revised NOI that he does not wish to complete a stability analysis study. Therefore, this variance request *is denied*. (LK)
4. A variance to *Rule R647-4-111.12 - Topsoil Redistribution and R647-4- 113 - Revegetation* was requested to not revegetate highwall slopes steeper than 60 degrees. Since there will be no final highwall slopes steeper than 60 degrees, this variance is not applicable. The Division will require all disturbed areas to have topsoil replaced or substitute growth materials utilized to insure revegetation success. The request for this variance *is denied*. (LK)

R647-4-113 - Surety

In discussions and correspondence with the operator, a request has been considered to reduce the amount of reclamation surety that will need to be posted initially. The proposal is to post the reclamation surety as a Certificate of Deposit (CD) in current year dollars. Interest earned on the CD would accrue (quarterly or annually) to cover the normal 5-year escalation factor that the Division applies to the calculated current year reclamation cost estimate. The Division will accept the following:

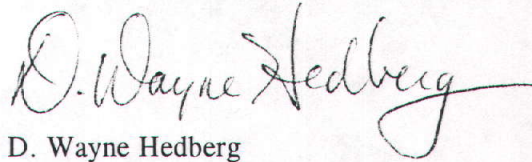
A CD in the amount of \$53,700.00, which is the 1st year (yr 2001) escalation amount, using a 3.13% escalation factor. The CD will be set up so that all interest will accrue until the full five-year escalation amount of \$60,800.00 plus one term of interest is achieved. At the end of each successive year, the operator will be required to add any additional monies that may be required so that the full amount of the escalated cost for

Page 3
Lon Thomas
Tentative Approval
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that year is covered (at the end of the first year, the minimum CD value must be \$55,400.00; at the end of the second year, \$57,200.00; at the end of the third year, \$59,000.00; and at the end of the forth year, \$60,800.00). A copy of the reclamation cost estimate is attached.

If you have any questions in this regard please contact me or Lynn Kunzler of the Minerals Staff at (801) 538-5286 or 538-5310, respectively. Thank you for your cooperation and patience in completing this permitting process.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg". The signature is fluid and extends to the right with a long horizontal stroke.

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
Attachment: Surety estimate
cc: Pam Grubaugh-Littig, DOGM
Lynn Kunzler, DOGM
m51-01 Heber.ten

RECLAMATION SURETY ESTIMATE

American Stone

last revised 08/22/00

Heber Quarry

filename M051-001

M/051/001

Wasatch County

Prepared by Utah State Division of Oil, Gas & Mining

-This estimate uses a D8 size dozer for most earthwork

0.15 acres was allowed for highwall variance

Sub-soil on pit floors will be placed at a 2' depth

Soil was calculated at a 6" depth over entire site

1 acre of borrow area reclamation included in total disturbance.

Note: actual unit costs may vary according to site conditions last unit cost update 08/25/99

-Amount of disturbed area which will receive reclamation treatments = 15.00 acres

-Estimated total disturbed area for this mine = 15.0 acres

Activity	Quantity	Units	\$/unit	\$	Note
Safety gates, signs, etc. (mtls & installation)	1	sum	200	200	(1)
Debris & equipment removal - loading trucks w/FE loader				0	(5)
Demolition & debris removal - general labor	10	hours	15	150	(6)
Regrading facilities areas (1 ft depth)				0	(7)
Regrading waste dump slopes 1.6 ac X 3 ft deep	7,750	CY	0.47	3,643	(8)
Ripping waste dump tops	3.1	acre	220	682	(9)
Ripping stockpile & compacted areas	1.9	acre	220	418	(9)
Ripping pit floors	4.0	acre	220	880	(9)
Ripping pit access roads	1.3	acre	220	286	(9)
Resloping Pit Highwalls	2,700	CF	0.47	1,269	(8)
				0	(9)
				0	(7)
Sidecast mtl replacement on steep roads- trackhoe	1,300	LF	0.85	1,105	(11)
Sub-soil placement (2' cover/ 4 acres) Pit Floors	12900	CY	1.15	14,835	(10)
Topsoil replacement - dozer	1500	CY	0.47	705	(12)
Topsoil replacement - truck & FE loader	4150	CY	2.55	10,583	(14)
Topsoil replacement - FE loader	2650	CY	1.15	3050	
Composted manure (10 ton/acre)	14.0	acre	200	2,800	(00)
Broadcast seeding (~20 lb/acre)	14.9	acre	170	2,533	(00)
General site cleanup & trash removal	7.5	acre	50	375	(00)
Equipment mobilization	2	equip	1000	2,000	(00)
Reclamation Supervision	5	days	372	1,860	(15)
		Subtotal		47,373	
10% Contingency				4,737	
		Subtotal		\$52,110	
Escalate for 1 st year at 3.13% per yr	1,631		53,700		
Escalate for 2 nd year at 3.13% per yr	3,313		55,400		
Escalate for 3 rd year at 3.13% per yr	5,048		57,200		
Escalate for 4 th year at 3.13% per yr	6,851		59,000		
Escalate for 5 th year at 3.13% per yr	8,682		60,800		

Total \$60,792

Rounded surety amount in yr 2005-\$ **\$60,800**

Average cost per disturbed acre = \$4,053

GENERIC RECLAMATION ESTIMATE

American Stone

Heber Quarry

M/051/001

Prepared by Utah State Division of Oil, Gas & Mining

last unit cost update

last revision

08/22/00

filename M/051/001.

Wasatch County

08/25/99

Note

- (1) DOGM lump sum assumed
- (2) Means Heavy Construction Cost Data 1998, 020-604-0100, mixture of bldg. types, average, excluding dump f
- (3) Means 1998, 020-620-5100, \$0.48/mile for >8CY truck; assumed 100 miles round trip
- (4) Means 1998, 020-612-0100, dump charges, typical urban city, tipping fees only, bldg construction mtl's
- (5) Rental Rate Blue Book 4/98, Cat 988B, 7CY, & Means 1998, Crew B-10U, loading trucks only
- (6) DOGM assumed wage for unskilled general labor
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (8) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 100 ft push
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (10) Means 1998 & Rental Rate Blue Book 4/98: Cat 988B, 430 CY/hr @\$97/hr + \$38.95/hr
- (9) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (7) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (11) Contractor's actual costs, 1991 at E/053/012, Cat 225 Excavator, 20 ft wide road
- (10) Means 1998 & Rental Rate Blue Book 4/98
- (12) Means 1998 & Rental Rate Blue Book 4/98: Cat D8N, U, mtl 2550 lb/CY, 100 ft push
- (13) Means 1998 & Rental Rate Blue Book 4/98: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4
- (14) Means 1998 022-266-2030: hauling excavated or borrow material, off highway hauler, 22 CY, 1 mile round trip
- (00) DOGM general estimate - mulching
- (00) DOGM general estimate - fertilizing
- (00) DOGM general estimate - manure \$16/ton delivered, \$40/acre spreading
- (00) DOGM general estimate - broadcast seeding
- (00) DOGM general estimate - drill seeding
- (00) DOGM general estimate - hydroseeding
- (00) DOGM general estimate - site cleanup & trash removal
- (00) DOGM general estimate - equipment mobilization
- (15) Means 1998, 010-036-0180, project manager, minimum \$1,815/wk

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

LON THOMAS
STAR STONE QUARRIES INC
4040 S 300 W
SALT LAKE CITY UT 84107

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

Kevin Kidd

B. Date of

8/28/00

C. Signature

X

☐ Ag

☐ Ag

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail

☐ Express Mail

☐ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

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Z 230 748 238

JB

DOGM

M/051/001

8/25/00

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OF
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1594 W NORTH TEMPLE STE 1210
BOX 145801
SALT LAKE CITY UT 84114-5801

RECEIVED

AUG 30 2000

**DIVISION OF
OIL, GAS AND MINING**

